

SECTION 08 3323

OVERHEAD COILING DOORS

LANL MASTER SPECIFICATION

When editing to suit project, author shall add job-specific requirements and delete only those portions that in no way apply to the activity (e.g., a component that does not apply). To seek a variance from applicable requirements, contact the ESM Architectural POC.

When assembling a specification package, include applicable specifications from all Divisions, especially Division 1, General Requirements.

Delete information within "stars" during editing.

Specification developed for ML-3 projects. For ML-1 / ML-2, additional requirements and QA reviews are required.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Overhead coiling doors and electric motor operating devices with manual override.

- 1.2 Door assembly to withstand wind/suction load of 30 psf without undue deflection or damage to door or assembly components.

1.3 SUBMITTALS

- A. Submit the following in accordance with the requirements of Section 01 3300, Submittal Procedures.
 - 1. Catalog data indicating general construction, component connections and details, and electrical equipment requirements.
 - 2. Shop drawings, for each type and size indicate pertinent dimensions, anchorage methods, hardware locations and installation details.
 - 3. Manufacturer's installation instructions indicating installation sequence and procedures, and adjustment and alignment procedures.
 - 4. Operation and maintenance data indicating lubrication requirements, periodic adjustments required, and operation of controls.
 - 5. Provide manufacturer's standard labor and material warranty.

1.4 FIELD MEASUREMENTS

- A. Verify that field measurements are as indicated on shop drawings.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Windsor Republic Door, Model SFWI.
- B. Cookson Company, Model FMWI.
- C. Wayne-Dalton, Model Titan.

2.2 MATERIALS

- A. Curtain slats: Interlocking, minimum 20 gage exterior face, 22 gage interior face, of ANSI/ASTM A525 steel, galvanized to minimum 1.25 oz/sq ft coating conforming to ASTM G90; sandwich slat construction with foam insulated core, minimum R value = 4.
- B. Guides: Continuous, vertical mounted, formed steel angles, mounted with galvanized steel brackets.
- C. Roller shaft counterbalance: Steel pipe and helical steel spring system, capable of producing torque sufficient to assure smooth operation of curtain from any position, with adjustable spring tension.
- D. Hood enclosure and fascia: Galvanized steel, internally reinforced to maintain rigidity and shape.
- E. Hardware:
 - 1. Lock cylinder: As specified in Section 08 7100.
 - 2. Handle: Inside center mounted, adjustable keeper, spring activated latch bar with feature to keep it in locked or retracted position, interior and exterior handles.
 - 3. Weatherstripping: Moisture and rot proof, resilient type, located at jamb edges, bottom of curtain, and where curtain enters hood enclosure.

2.3 ELECTRIC OPERATOR

- A. Operator:
 - 1. Description: ANSI/UL 325, side mounted
 - 2. Motor enclosure: NEMA MG1, Type 1, open drip proof TEFC

- 3. Motor rating: [1/2] hp, continuous duty
- 4. Motor voltage: [208] [480] V, [single] [three] phase, 60 Hz
- 5. Controller enclosure: NEMA 250 ,Type [1] [4]
- 6. Door speed: 12 inches per second
- 7. Brake: Adjustable friction clutch type, activated by the motor controller
- B. Controller: Standard three button (OPEN-STOP-CLOSE) constant pressure control for each operator; 24 volt circuit, surface mounted.
- C. Safety edge: Located at curtain bottom, electro-mechanical sensitized type, wired to stop curtain upon striking an object, hollow neoprene weather seal.

2.4 FINISHES

- A. Curtain slats: steel, galvanized and primed
- B. Steel guides and hood enclosure: steel, primed

PART 3 EXECUTION

3.1 INSPECTION

- A. Verify that opening size, tolerances and conditions are acceptable.

3.2 INSTALLATION

- A. Install door assembly in accordance with shop drawings and manufacturer's instructions.
- B. Securely fasten guide assembly to wall construction and building framing without distortion or stress.
- C. Securely and rigidly brace components suspended from structure.
- D. Fit and assembly, including hardware, to provide smooth operation.
- E. Coordinate installation of electrical service.
- F. Install perimeter trim and weatherstrip.

3.3 ERECTION TOLERANCES

- A. Maximum variation from plumb is 1/8 inch.
- B. Maximum variation from level is 1/8 inch.
- C. Maximum longitudinal or diagonal warp is plus or minus 1/8 inch per 10 feet straight edge.

END OF SECTION

Do not delete the following reference information:

FOR LANL USE ONLY

This project specification is based on LANL Master Specification 08 3323 Rev. 1, dated September 28, 2006.